

0500

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	<b>Application Number</b>	10/063,771	
	<b>Filing Date</b>	05/11/2002	
	<b>First Named Inventor</b>	Guu-Chang Yang	
	<b>Group Art Unit</b>		
	<b>Examiner Name</b>		
<b>Total Number of Pages in This Submission</b>	101	<b>Attorney Docket Number</b>	ATCP0005USA

<b>ENCLOSURES (check all that apply)</b>		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<b>Remarks</b>	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>	
<b>Firm or Individual name</b>	WINSTON HSU
<b>Signature</b>	<i>Winston Hsu</i>
<b>Date</b>	5/14/2002

<b>CERTIFICATE OF MAILING</b>			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>			
<b>Typed or printed name</b>			
<b>Signature</b>		<b>Date</b>	

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**FEE TRANSMITTAL**  
**for FY 2002**

Patent fees are subject to annual revision.

**Complete if Known**

Application Number	10/063,771
Filing Date	05/11/2002
First Named Inventor	Guu-Chang Yang
Examiner Name	
Group Art Unit	
Attorney Docket No.	ATCP0005USA

TOTAL AMOUNT OF PAYMENT	(\$)	0.00
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**METHOD OF PAYMENT**

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number	50-0801
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Deposit Account Name	North America International Patent Office
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☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	0.00
114	160	214	80	Provisional filing fee	

**SUBTOTAL (1)** (\$)

0.00

**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
-20** =			
-3** =			
Multiple Dependent			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)**

(\$)

0.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Fee Code	Large Entity (\$)	Fee Code	Small Entity (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$)

0.00

**SUBMITTED BY**

Name (Print/Type)

WINSTON HSU

Registration No.  
(Attorney/Agent)

41,526

**Complete (if applicable)**

Telephone

886-2-8923-7350

Signature

*Winston Hsu*

Date

5/14/2002

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Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of

03

## Complete if Known

Application Number

10/063,551

Filing Date

05/11/2002

First Named Inventor

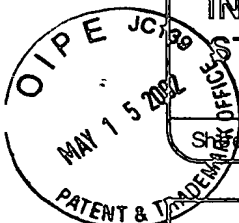
Guan - Chang Yang

Group Art Unit

Examiner Name

Attorney Docket Number

ATCP0005USA



## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	1.	Title: On the Capacity of a Cellular CDMA System (From: IEEE Transactions on vehicular technology, Vol. 40, No. 2, May 1991) Pages: 302~312, total 11 pages. Author: Klein S. Gilhausen, Irwin M. Jacobs, Roberto Padovani, Andrew J. Viterbi, Lindsay A. Weaver, Jr., Charles E. Wheatley	
	2	Title: Wideband DS-SSMA for Next-Generation Mobile Communications Systems (From: IEEE Communications Magazine, September, 1998) Pages: 56~69, total 14 pages. Author: Fumiyuki Adachi, Mamoru Sawahashi, Hirohito Suda	
	3	Spreading codes for Direct Sequence CDMA and Wideband CDMA Cellular Networks (From: IEEE Communications Magazine, September 1998) Pages: 48~54, total 7 pages. Author: Zsmael H. Dinan and Bijan Jabbari	
	4	Title: UMTS/IMT-2000 Based on Wideband CDMA (From: IEEE Communications Magazine, September 1998) Pages: 70~80, total 11 pages. Author: Erik Dahlman, Björn Gudmundson, Mats Nilsson, and Johan Sköld.	
	5	Title: Performance of Multicarrier DS SSMA Systems (From: IEEE Transactions on communications, Vol. 44, No. 2, February 1996) Pages: 238~246, total 9 pages. Author: Shiro Kanda and Laurence B. Milstein	

Examiner  
Signature

Date

Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number.

<sup>2</sup> Applicant is to place a check mark here if English language Translation is attached

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Substitute for form 1449/PTO

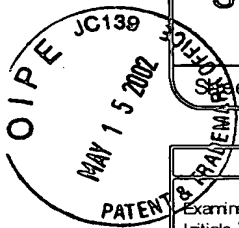
# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 3

## Complete if Known

Application Number	10/063, 771
Filing Date	05/11/2002
First Named Inventor	Guo - Chang Yang
Group Art Unit	
Examiner Name	
Attorney Docket Number	ATCP0005USA



## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	6	Title = Performance of Orthogonal Multicarrier CDMA in a Multipath Fading Channel From = IEEE Transactions on communications, Vol. 44, No. 3, March 1996 Pages: 356 ~ 367, total 12 pages. Author = Essam A. Sourour, and Masao Nakagawa	
	7	Asynchronous Multicarrier DS-SS-CDMA Using Mutually Orthogonal Complementary Sets of Sequences. From: IEEE Transactions on communications, Vol. 48, No. 1, January 2000 Pages: 53 ~ 59, total 7 pages. Author: Shu-Ming Tseng, and Mark R. Bell.	
	8	Title: A Multicarrier CDMA Architecture Based on Orthogonal Complementary Codes for New Generations of Wideband Wireless Communications. From: IEEE Communications Magazine, October 2001 Author: Hsiao-Hwa Chen, Jun-Feng Yeh, and Naoki Suehiro Pages: 126 ~ 135, total 10 pages.	
	9	Title: Complementary Sets of Sequences From: IEEE Transactions on information theory, Vol. IT-18, No. 5, September 1972. Pages: 644 ~ 652, total 9 pages. Author: C-C. Tseng, and C.L. Liu	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**Complete if Known**

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/063, 771
Filing Date	05/11/2002
First Named Inventor	Guan - Chang Yang
Group Art Unit	
Examiner Name	
Attorney Docket Number	ATC 0005USA

OIPE  
 JC139  
 MAY 15 2002  
 PATENT & TRADEMARK OFFICE  
 Sheet 1 of 1  
 Examiner's Initials  
 353530

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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